

Grade 3

Tilly's Tiles

Math Task

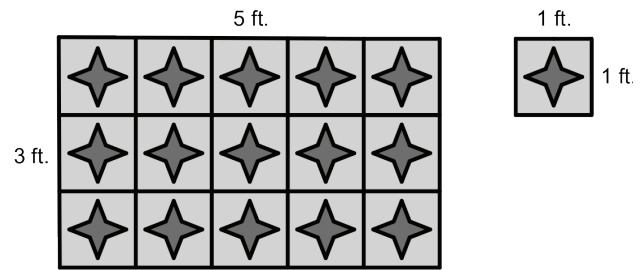
2015-2016 NYC End-of-Year Performance Tasks

Instructions

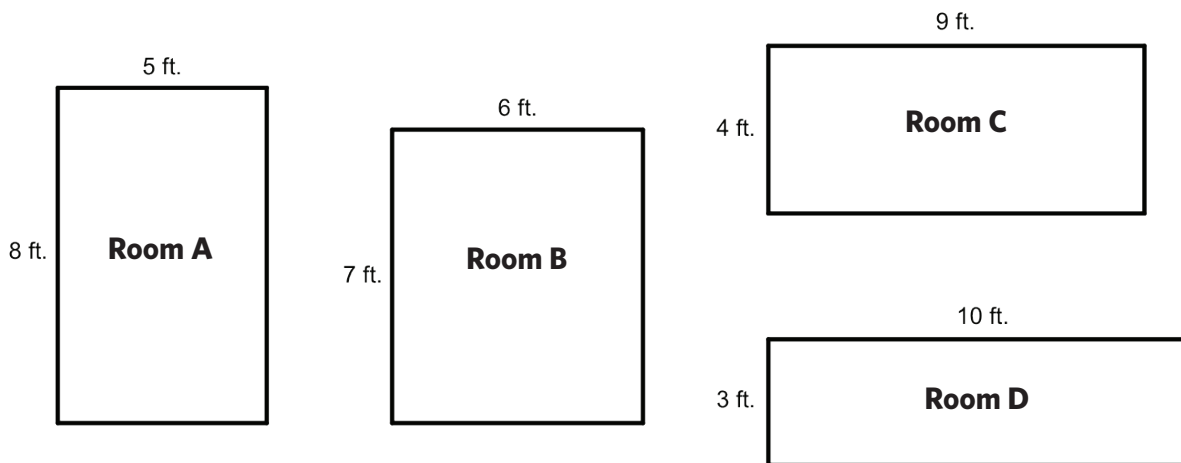
- Tasks may not be shared with students prior to administration.
- If the above-named NYC Performance Task is being administered for evaluative purposes, the End-of-Year task may be administered by the regular classroom teacher but **may not be scored** by the regular classroom teacher.
- Distribute one task booklet to each student.
- All student work should be completed in the task booklet. All student work in the task booklet should be scored, regardless of whether the student completed or attempted every question.
- Students should have 90 minutes to complete the task, not including the distribution and collection of materials.
- Depending on school scheduling, administration may occur over 1-2 days. Administration conditions (i.e., the amount of time students have to complete the task, etc.) should be consistent across all classrooms in the school administering the above-named NYC Performance Task.
- Students should receive all accommodations normally provided for a class or state test.
- For complete administration information, see the MOSL Assessment Administration Handbook.

Tilly's Tiles

Tilly uses tiles that are 1 square foot to cover floors. Tilly is working on Mrs. Diaz's house tiling floors in many of the rooms. For example, the floor to the right is 5 feet long and 3 feet wide and is made of 15 tiles. Tilly needs to decide how many tiles she will need for each floor.



1 In Mrs. Diaz's house there will be 4 rooms for Tilly to tile:



Which room has the largest area? _____

Show your work.

Name: _____ Date: _____

- 2 Tilly will also tile the two bathroom floors in Mrs. Diaz's house. Both bathroom floors are rectangular floors that are each 4 feet wide.

Tilly uses a total of 40 tiles to cover both bathroom floors. What could be the lengths and widths of each floor if Tilly uses a total of exactly 40 tiles?

Measurements of Floor 1 - Length: _____ feet Width: _____ feet

Measurements of Floor 2 - Length: _____ feet Width: _____ feet

Show your work.

Name: _____ Date: _____

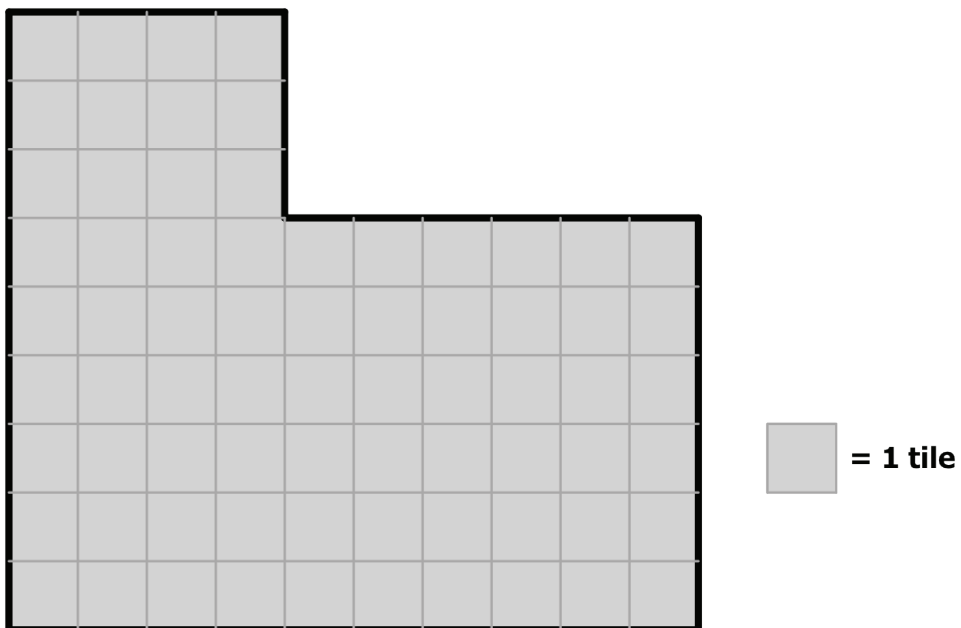
- 3 Tilly uses 72 tiles for Mrs. Diaz's outdoor patio. There are 8 tiles in each row of the patio.

How many rows are there? _____ rows

Write and solve a multiplication sentence to model the problem.

Name: _____ Date: _____

- 4 Mrs. Diaz's kitchen is not a rectangle. Tilly needs to cover the floor shown below with tiles.



How many tiles will Tilly need to make the kitchen floor? _____ tiles

Show your work using number sentences.

Name: _____ **Date:** _____

- 5** Mrs. Diaz's neighbors would like Tilly to tile their kitchens. There are 4 kitchen floors to tile and each kitchen will use 90 tiles.

How many total tiles will Tilly need for the 4 kitchen floors? _____ **tiles**

Show your work.

Name: _____ **Date:** _____

- 6** Tilly was asked to work on another project where a new neighborhood is being built. In the first plan, there were going to be 6 houses on each street and 6 streets total. The plans have changed and now there are 4 streets, but there is still the same total number of houses being built in the new neighborhood.

How many houses are now on each street? _____ **houses**

Show your work.

Name: _____ **Date:** _____

- 7** For another job Tilly will need 80 special tiles. She makes 6 special tiles each week.

After 8 weeks of making special tiles, how many more tiles does Tilly still need to make to have 80 special tiles? _____ more tiles

Use estimation to show why your answer is reasonable.